

FORM PTO-1449/A and B (Modified)		APPLICATION NO.: 09/783,930	ATTY. DOCKET NO.: C0989.70032US00
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		FILING DATE: February 15, 2001	CONFIRMATION NO.: 1457
		APPLICANT: Gilmanshin et al.	
		GROUP ART UNIT: 1631	EXAMINER: John S. Brusca
Sheet	1	of	3

U.S. PATENT DOCUMENTS

Examiner's Initials†	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
JBS	A1	6,263,286	B1	Gilmanshin et al.	06-17-2001
JBS	A2	6,355,420	B1	Chan	03-12-2002
JBS	A3	6,403,311	B1	Chan	06-11-2002
JBS	A4	6,210,896	B1	Chan	04-03-2001
JBS	*	5,846,727		Soper et al.	12-08-1998
JBS	*	5,807,677		Eigen et al.	09-15-1998
JBS	*	5,674,743		Ulmer	10-07-1997
JBS	*	5,591,578		Meade et al.	01-07-1997
JBS	*	5,404,320		Butler	04-04-1995
JBS	*	5,374,527		Grossman	12-20-1994
JBS	*	5,219,726		Evans	06-15-1993
JBS	*	4,979,824		Mathies et al.	12-25-1990
JBS	*	4,962,037		Jett et al.	10-09-1990

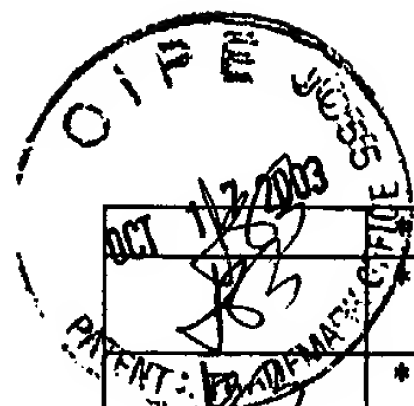
FOREIGN PATENT DOCUMENTS

Examiner's Initials†	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/Country	Number	Kind Code			
JBS	*	WO	98/35012			08-13-1998	
JBS	*	WO	98/18965			05-07-1998	
JBS	*	WO	98/10097			03-12-1998	
JBS	*	WO	96/06189			02-29-1996	
JBS	*	WO	94/16313			07-12-1994	np
JBS	B1	WO	00/09757			02-24-2000	

OTHER ART — NON PATENT LITERATURE DOCUMENTS

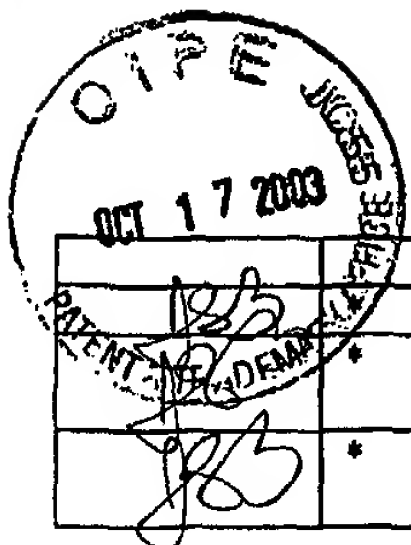
Examiner's Initials†	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
JBS	*	ALIVISATOS (1996), Perspectives on the Physical Chemistry of Semiconductor Nanocrystals, J. PHYS. CHEM. 100:13226.	
JBS	*	BAINS (1992), Setting a Sequence to Sequence a Sequence, BIO/TECHNOLOGY 10:757.	
JBS	*	BRUCHEZ et al. (1998), Semiconductor Nanocrystals as Fluorescent Biological Labels, SCIENCE 281:2013.	
JBS	*	BUCKLE et al. (1996), Structural and Energetic Response to Cavity-Creating Mutations in Hydrophobic Cores: Observation of a Buried Water Molecule and the Hydrophilic Nature of Such Hydrophobic Cavities, BIOCHEM. 35:4298.	
JBS	*	BURNS et al. (1998), An Integrated Nanoliter DNA Analysis Device, SCIENCE 282:484.	
JBS	*	BUSTAMANTE (1991), Direct Observation and Manipulation of Single DNA Molecules Using Fluorescence Microscopy, ANNU. REV. BIOPHYS. CHEM. 20:415.	

J.S. Brusca 08 December 2003



		CASTRO et al. (1995), Single-Molecule Electrophoresis, ANAL. CHEM. 67:3181.		
		CHAN et al. (1998), Quantum Dot Bioconjugates for Ultrasensitive Nonisotopic Detection, SCIENCE 282:2016.		
	*	de PRAT-GAY (1996), Association of Complementary Fragments and the Elucidation of protein Folding Pathways, PROTEIN ENG. 9:843.		
	*	EIGEN et al. (1994), Sorting Single Molecules: Application to Diagnostics and Evolutionary Biotechnology, PROC. NATL. ACAD. SCI. USA 91:5740.		
	*	ELSON et al. (1974), Fluorescence Correlation Spectroscopy I Conceptual Basis and Theory, BIOPOLYMERS 13:1.		
	*	GOUAUX (1997), Channel-Forming Toxins: Tales of Transformation, CURR. OPIN. STRUCT. BIOL., 7:566.		
	*	HARRISON et al. (1992), Capillary Electrophoresis and Sample Injection Systems Integrated on a Planar Glass Chip, ANAL. CHEM. 64:1926.		
	*	HEIGER et al. (1990), Separation of DNA Restriction Fragments by High Performance Capillary Electrophoresis with Low and Zero Crosslinked Polyacrylamide Using Continuous and Pulsed Electric Fields, J. CHROMATOGR. 516:33.		
	*	HOLLAND et al. (1998), Synthesis of Macroporous Minerals with Highly Ordered Three-Dimensional Arrays of Spheroidal Voids, SCIENCE 281:538.		
	*	HOLZWARTH et al. (1989), The Acceleration of Linear DNA During Pulsed-Field Gel Electrophoresis, BIOPOLYMERS 28:1043.		
	*	JACOBSON et al. (1995), Fused Quartz Substrates for Microchip Electrophoresis, ANAL. CHEM. 67:2059.		
	*	JAMESON et al. (1997), Fluorescent Nucleotide Analogs: Synthesis and Applications, METH. ENZYMOL. 278:363.		
	*	KIM et al. (1990), Intermediates in the Folding Reactions of Small Proteins, ANNU. REV. BIOCHEM. 59:631.		
	*	KWIATKOWSKI et al. (1994), Solid-Phase Synthesis of Chelate-Labeled Oligonucleotides: Application in Triple-Color Ligase-Mediated Gene Analysis, NUCL. ACIDS RES. 22:2604.		
	*	LANGER et al. (1981), Enzymatic Synthesis of Biotin-Labeled Polynucleotides: Novel Nucleic Acid Affinity Probes, PROC. NATL. ACAD. SCI. USA 78:6633.		
	*	MAGDE et al. (1974), Fluorescence Correlation Spectroscopy II An Experimental Realization, BIOPOLYMERS 13:29.		
	*	MAXAM et al. (1977), A New Method for Sequencing DNA, PROC. NATL. ACAD. SCI. USA 74:560.		
	*	MULLIKIN et al. (1999), Techview: DNA Sequencing, Sequencing the Genome Fast, SCIENCE 283:1867.		
	*	ORUM et al. (1995), Sequence-Specific Purification of Nucleic Acids by PNA-Controlled Hybrid Selection, BIOTECHNIQUES 19:472.		
	*	RIGLER et al. (1993), Fluorescence Correlation Spectroscopy with High Count Rate and Low Background: Analysis of Translational Diffusion, EUR. BIOPHYS. J. 22:169.		
	*	SAHA et al (1993), Time-Resolved Fluorescence of a New Europium Chelate Complex: Demonstration of Highly Sensitive Detection of Protein and DNA Samples, J. AM. CHEM. SOC. 115:11032.		
	*	SANGER et al. (1977), DNA Sequencing with Chain-Terminating Inhibitors, PROC. NATL. ACAD. SCI. USA 74:5463.		
	*	SCHWILLE et al. (1997), Dual-Color Fluorescence Cross-Correlation Spectroscopy for Multicomponent Diffusional Analysis in Solution, BIOPHYS. J. 72:1878.		
	*	SEILLER et al. (1993), Planar Glass Chips for Capillary Electrophoresis: Repetitive Sample Injection, Quantitation and Separation Efficiency, ANAL. CHEM. 65:1481.		
	*	SELVIN et al. (1995), Fluorescence Resonance Energy Transfer, METH. ENZYMOL. 246:300.		
	*	SELVIN et al (1994), Luminescence Resonance Energy Transfer, J. AM. CHEM. SOC. 116:6029.		
	*	SELVIN and Hearst (1994), Luminescence Energy Transfer Using a Terbium Chelate: Improvements on Fluorescence Energy Transfer, PROC. NATL. ACAD. SCI. USA 91:10024.		
	*	SERVICE (1998), Microchip Arrays Put DNA on the Spot and Coming Soon: the Pocket DNA Sequencer, SCIENCE 282:396.		
	*	SHERA, et al. (1990), Detection of Single Fluorescent Molecules, CHEM. PHYS. LETT. 174:553.		
	*	SINCLAIR, (1999), Sequence or Die: Automated Instrumentation for the Genome Era, THE SCIENTIST 13:18.		
	*	STREZOSKA et al (1991), DNA Sequencing by Hybridization: 100 Bases Read by a Non-Gel-based Method, PROC. NATL. ACAD. SCI. USA 88:10089.		
	*	STRYER (1978), Fluorescence Energy Transfer as a Spectroscopic Ruler, ANNU. REV. BIOCHEM. 47:819.		
	*	SUNG et al.. (1996), Polymer Translocation Through a Pore in a Membrane, PHYS. REV. LETT. 77:783.		
	*	TAN et al. (1996), Nanoscopic Imaging and Sensing by near Field Optics, in Fluorescence Imaging Spectroscopy and Microscopy, Wang and Herman eds., John Wiley & Son, CHEM. ANAL. SER. 137:407.		
	*	WAGGONER et al. (1995), Covalent Labeling of Proteins and Nucleic Acids with Fluorophores, METH. ENZYMOL. 246:362.		
	*	WEISS (1999), Fluorescence Spectroscopy of Single Biomolecules, SCIENCE 283:1676.		
	*	WIJNHOFEN et al (1998), Preparation and Photonic Crystals Made of Air Spheres in Titania, SCIENCE 281:802.		
	*	WILLIAMS et al (1998), Partition and Permeation of Dextran in Polyacrylamide Gel, BIOPHYS. J. 75:493.		
	*	WOOLLEY et al. (1994), Ultra-High-Speed DNA Fragment Separations Using Microfabricated Capillary (cont.)		

(on next page)



		Array Electrophoresis Chips, RPOC. NATL. ACAD. SCI. USA 91:11348.		
		WU et al. (1994), Resonance Energy Transfer: Methods and Applications, ANAL. BIOCHEM. 218:1.		
		YANG et al. (1997), Fluorescence Resonance Energy Transfer as a Probe of DNA Structure and Function, METH. ENZYMOL. 278:417.		
	*	YOUNG et al (1985), Quantitative Analysis of Solution Hybridisation, in Nucleic Acid Hybridization: A Practical Approach, Hames and Higgins eds. IRL Press pp. 47.		

EXAMINER <i>J.B. Bussio</i>	DATE CONSIDERED <i>08 December 2003</i>
--------------------------------	--

†EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. 09/374,902, filed August 13, 1999, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

- ✓ [NOTE - Must provide a copy of any patent, publication, other information listed, even if it was previously submitted to, or cited by, the U.S. Patent Office in an earlier application, unless the earlier application is identified by the IDS and is relied upon for an earlier filing date under 35 U.S.C. §120, and the copy was provided in the earlier application.]